

METHOD AND SYSTEM FOR SELECTIVELY
DISTRIBUTING LUMINESCENCE MATERIAL
PRECURSORS

ABSTRACT OF THE DISCLOSURE

5 A method comprises positively displacing a first candidate
luminescence material precursor from a dispenser to a first position of an array,
displacing a second candidate luminescence material precursor from a dispenser
mechanism to a second position of an array and simultaneously reacting the first and
second candidates to produce a library of luminescence materials. A combinatorial
10 high throughput screening liquid dispenser assembly comprises a battery of positive
displacement driven dispensers for dispensing solutions of precursor luminescence
materials, an array plate with wells to receive dispensed solution from the dispenser, a
robotic positioning table supporting the array plate to position wells beneath
15 respective dispensers and a controller to control dispensing of the solutions and
positioning of the plate.